

ABSTRACT

5 The present invention is directed to an active water pump system for control of
engine temperature. The active water pump is an electric pump combined with control
electronics. An “active water pump” is an engine cooling fluid pump whose source of
power and control is not directly driven by the engine in combination with its control
electronics. The active water pump is used as an auxiliary cooling system to a
mechanical water pump system for overall cooling control. In the cooling system of the
10 invention, under most driving conditions, mechanical water pump provides the coolant
circulation. The active water pump is active primarily during deceleration and after the
engine is shut down.